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Table 13--Current utilization and projected potential of plant matter in producing intermediate chemicals and industrial materials in the United States, estimated by the Institute for Local Self-Reliance

| Product | Total 1992 production | Plant matter-derived 1/ 1996 potential | Plant matter-derived 1996 potential | Conventional product costs | Plant matter product costs 2/ | Reduction in plant matter product costs since 1985 | Reduction in plant matter product costs by 1996 3/ |
|----------------------|-----------------------|--|-------------------------------------|----------------------------|-------------------------------|--|--|
| | Million tons | --Percent-- | | --Dollars/pound-- | | --Percent-- | |
| Wall paints | 8.0 | 3.5 | 10.0 | 0.50 | 1.20 | 14.0 | 20.0 |
| Special paints | 2.5 | 2.0 | 4.0 | 0.80 | 1.75 | 3.0 | 5.0 |
| Pigments | 15.5 | 4.0 | 6.0 | 2.00 | 5.80 | 20.0 | 15.0 |
| Dyes | 4.5 | 6.0 | 15.0 | 12.00 | 18.00 | 25.0 | 20.0 |
| Inks | 3.6 | 8.0 | 17.0 | 2.00 | 2.40 | 30.0 | 10.0 |
| Detergents | 3.8 | 12.0 | 18.0 | 1.20 | 1.50 | 15.0 | 5.0 |
| Surfactants | 3.9 | 39.0 | 50.0 | 0.45 | 0.45 | 20.0 | 5.0 |
| Adhesives | 5.1 | 42.0 | 48.0 | 1.65 | 1.40 | 15.0 | 2.0 |
| Poymers | 30.3 | 3.4 | 7.0 | 0.50 | 2.00 | 20.0 | 45.0 |
| Plasticizers | 0.9 | 15.0 | 32.0 | 1.50 | 2.50 | 20.0 | 20.0 |
| Acetic acid | 1.8 | 16.0 | 24.0 | 0.33 | 0.35 | 5.0 | 2.0 |
| Furfural derivatives | 0.3 | 25.0 | 35.0 | 0.75 | 0.78 | 10.0 | 2.0 |
| Fatty acids | 2.5 | 40.0 | 55.0 | 0.46 | 0.33 | 5.0 | 5.0 |
| Industrial carbon | 1.5 | 12.0 | 19.0 | 0.50 | 0.45 | 10.0 | 15.0 |

1/ Represents both wholly and partially plant-matter-derived products. 2/ The cost premium of plant matter-based products is calculated based on the average median costs of commercially available products in a given category. 3/ Market projections based on performance over the past 5 years and the expected contributions of recent technical breakthroughs.

Source: David Morris and Irshad Ahmed, *The Carbohydrate Economy: Making Chemicals and Industrial Materials from Plant Matter*. Washington, DC; Institute for Local Self-Reliance 1992, revised June 1993.

Table 14--Flaxseed, acreage planted, harvested, yield, production, and value, 1985-92

| Year | Planted | Harvested | Yield | Production | | Value |
|---------|-----------------|-----------|-------|------------------|---------------|---------|
| | | | | Bushels per acre | 1,000 bushels | |
| | --1,000 acres-- | | | | | \$1,000 |
| 1985 | 620 | 584 | 14.2 | | 8,293 | 41,912 |
| 1986 | 720 | 683 | 16.9 | | 11,538 | 39,962 |
| 1987 | 470 | 463 | 16.1 | | 7,444 | 25,188 |
| 1988 | 275 | 226 | 7.1 | | 1,615 | 12,200 |
| 1989 | 195 | 163 | 7.5 | | 1,215 | 8,724 |
| 1990 | 260 | 253 | 15.1 | | 3,812 | 21,108 |
| 1991 1/ | 351 | 337 | 18.1 | | 6,100 | 21,395 |
| 1992 2/ | 191 | 182 | 16.0 | | 2,912 | 14,123 |

1/ Preliminary. 2/ Forecast.

Table 15--Linseed oil, supply and disappearance, United States, 1985/86-1992/93

| Year beginning June 1 | Supply | | | Disappearance | | | Ending stocks |
|-----------------------------|---------------------|------------|-------|---------------|----------|-------|------------------|
| | Beginning stocks | Production | Total | Exports | Domestic | Total | |
| --1,000 short tons-- | | | | | | | |
| 1985/86 | 33 | 205 | 238 | 15 | 184 | 199 | 39 |
| 1986/87 | 39 | 201 | 240 | 6 | 183 | 189 | 51 |
| 1987/88 | 51 | 217 | 268 | 8 | 219 | 227 | 41 |
| 1988/89 | 41 | 170 | 211 | 12 | 151 | 163 | 48 |
| 1989/90 | 48 | 165 | 213 | 12 | 164 | 176 | 37 |
| 1990/91 | 37 | 176 | 213 | 6 | 167 | 173 | 40 |
| 1991/92 1/ | 40 | 176 | 216 | 10 | 166 | 176 | 40 |
| 1992/93 2/ | 40 | 176 | 216 | 10 | 166 | 176 | 40 |

1/ Preliminary. 2/ Forecast.

Table 16--Linseed meal, supply and disappearance, United States, 1985/86-1992/93

| Year beginning June 1 | Supply | | | | Disappearance | | | | Ending stocks --1,000 short tons-- |
|-----------------------------|---------------------|------------|---------|-------|---------------|----------|-------|---|--|
| | Beginning stocks | Production | Imports | Total | Exports | Domestic | Total | | |
| --1,000 short tons-- | | | | | | | | | |
| 1985/86 | 3 | 184 | 3 | 190 | 75 | 110 | 185 | 5 | |
| 1986/87 | 5 | 185 | 2 | 192 | 63 | 127 | 190 | 2 | |
| 1987/88 | 2 | 198 | 2 | 202 | 59 | 140 | 199 | 3 | |
| 1988/89 | 3 | 156 | 11 | 170 | 63 | 102 | 165 | 5 | |
| 1989/90 | 5 | 153 | 9 | 167 | 23 | 139 | 162 | 5 | |
| 1990/91 | 5 | 162 | 3 | 170 | 41 | 124 | 165 | 5 | |
| 1991/92 1/ | 5 | 162 | 3 | 170 | 35 | 130 | 165 | 5 | |
| 1992/93 2/ | 5 | 162 | 3 | 170 | 30 | 135 | 165 | 5 | |

1/ Preliminary. 2/ Forecast.

Table 17--Industrial rapeseed, supply, disappearance, and price, United States, 1987/88-1992/93

| Year beginning June 1 | Supply | | | | Disappearance | | | Price Minn- neapolis Cents/lb. |
|-----------------------------|---------------------|------------|--------|------------|---------------|--------|------------------|---|
| | Beginning stocks | Production | Total | Exports 1/ | Domestic | Total | Ending stocks | |
| --Million pounds-- | | | | | | | | |
| 1987/88 | 2,198 | 21,981 | 24,179 | 0 | 23,072 | 23,072 | 1,107 | 10.00 |
| 1988/89 | 1,107 | 15,822 | 16,929 | 0 | 16,188 | 16,188 | 741 | 11.10 |
| 1989/90 | 741 | 19,143 | 19,884 | 0 | 19,003 | 19,003 | 882 | 10.50 |
| 1990/91 | 882 | 22,717 | 23,599 | 0 | 22,319 | 22,319 | 1,279 | 10.30 |
| 1991/92 2/ | 1,279 | 16,146 | 17,425 | 0 | 17,158 | 17,158 | 267 | 10.10 |
| 1992/93 3/ | 267 | 14,455 | 14,722 | 0 | 14,522 | 14,522 | 200 | 10.00 |

1/ Trade data does not distinguish between industrial and edible (canola) exports, therefore all exports were allocated to canola. 2/ Preliminary.

3/ Forecast.

Table 18--Industrial rapeseed oil, supply, disappearance, and price, United States, 1987/88-1992/93

| Year beginning June 1 | Supply | | | | Disappearance | | | Price Minn- neapolis Cents/lb. |
|-----------------------------|---------------------|------------|---------|--------|---------------|----------|--------|---|
| | Beginning stocks | Production | Imports | Total | Exports 1/ | Domestic | Total | |
| --Million pounds-- | | | | | | | | |
| 1987/88 | 800 | 6,785 | 17,637 | 25,222 | 0 | 22,699 | 22,699 | 2,522 |
| 1988/89 | 2,522 | 6,858 | 35,274 | 44,654 | 0 | 40,188 | 40,188 | 4,465 |
| 1989/90 | 4,465 | 8,184 | 29,407 | 42,056 | 0 | 37,851 | 37,851 | 4,206 |
| 1990/91 | 4,206 | 6,960 | 20,657 | 31,823 | 0 | 28,640 | 28,640 | 3,182 |
| 1991/92 2/ | 3,182 | 5,705 | 8,647 | 17,534 | 0 | 15,780 | 15,780 | 1,753 |
| 1992/93 3/ | 1,753 | 6,334 | 9,968 | 18,055 | 0 | 16,250 | 16,250 | 1,806 |

1/ Trade data does not distinguish between industrial and edible (canola) exports, therefore all exports were allocated to canola. 2/ Preliminary.

3/ Forecast.

Table 19--Industrial rapeseed meal, supply, disappearance, and price, United States, 1987/88-1992/93

| Year beginning June 1 | Supply | | | | Disappearance | | | Price Minn- neapolis Cents/lb. |
|-----------------------------|---------------------|------------|---------|--------|---------------|----------|--------|---|
| | Beginning stocks | Production | Imports | Total | Exports | Domestic | Total | |
| --Million pounds-- | | | | | | | | |
| 1987/88 | 300 | 10,624 | 0 | 10,924 | 0 | 10,711 | 10,711 | 212 |
| 1988/89 | 212 | 10,738 | 0 | 10,950 | 0 | 10,736 | 10,736 | 215 |
| 1989/90 | 215 | 12,815 | 0 | 13,030 | 0 | 12,773 | 12,773 | 256 |
| 1990/91 | 256 | 10,897 | 0 | 11,153 | 0 | 10,935 | 10,935 | 218 |
| 1991/92 1/ | 218 | 8,933 | 0 | 9,151 | 0 | 9,017 | 9,017 | 134 |
| 1992/93 2/ | 134 | 9,918 | 0 | 10,052 | 0 | 9,903 | 9,903 | 149 |

1/ Preliminary. 2/ Forecast.

Table 20--Total fats and oils consumption, with inedible by category, United States, 1985/86-92

| Year 1/ | Total consumption | Total edible | Total inedible | Soap | Paint or varnish | Feed | Resins and plastics | Lubricants 2/ | Fatty acids | Other products |
|--------------------|----------------------|-----------------|-------------------|-------|---------------------|---------|------------------------|---------------|----------------|-------------------|
| --Million pounds-- | | | | | | | | | | |
| 1985/86 | 19,249.6 | 13,972.6 | 5,277.0 | 754.9 | 228.0 | 1,705.7 | 173.4 | 103.4 | 1,968.9 | 342.6 |
| 1986/87 | d | d | 5,990.6 | d | d | d | d | d | d | d |
| 1987/88 | 20,241.2 | 14,175.5 | 6,065.7 | 868.6 | 179.1 | 1,967.6 | 196.3 | 107.8 | 2,203.8 | 542.8 |
| 1988/89 | 19,426.7 | 13,542.0 | 5,884.7 | 744.5 | 180.3 | 2,079.3 | 202.3 | 115.8 | 2,074.1 | 488.4 |
| 1989/90 | 20,036.0 | 14,382.7 | 5,653.3 | 792.0 | 89.5 | 2,143.5 | 222.4 | 157.1 | 1,944.7 | 304.1 |
| 1991 | 20,332.1 | 14,613.0 | 5,719.1 | 832.9 | 106.8 | 1,974.0 | 182.6 | 101.7 | 2,234.7 | 286.4 |
| 1992 | 20,751.7 | 14,847.3 | 5,904.4 | 738.8 | 123.8 | 2,176.5 | 165.5 | 109.4 | 2,041.2 | 549.3 |

d = Data withheld to avoid disclosing figures for individual companies.

1/ Crop year runs from October 1 to September 30. Annual totals reported on a calendar year basis beginning in 1991. 2/ Includes similar oils.

Source: Bureau of Census.

Table 21--Castor oil consumption, with inedible by category, United States, 1985/86-92

| Year 1/ | Total consumption | Total edible | Total inedible | Soap | Paint or varnish | Feed | Resins and plastics | Lubricants 2/ | Fatty acids | Other products |
|--------------------|----------------------|-----------------|-------------------|------|---------------------|------|------------------------|---------------|----------------|-------------------|
| --Million pounds-- | | | | | | | | | | |
| 1985/86 | 59.9 | 0.0 | 59.9 | d | d | 0.0 | 4.5 | d | d | d |
| 1986/87 | 70.4 | 0.0 | 70.4 | d | 4.6 | 0.0 | 4.2 | 5.6 | d | 53.8 |
| 1987/88 | 74.6 | 0.0 | 74.6 | d | 4.3 | 0.0 | 4.8 | 6.1 | d | 59.0 |
| 1988/89 | 59.2 | 0.0 | 59.2 | d | 4.8 | 0.0 | 4.5 | 6.2 | 0.0 | 43.2 |
| 1989/90 | 51.4 | 0.0 | 51.4 | d | 5.9 | 0.0 | 4.0 | 5.7 | 0.0 | d |
| 1991 | 46.0 | 0.0 | 46.0 | d | 5.9 | 0.0 | 4.0 | d | 0.0 | 31.7 |
| 1992 | 41.3 | 0.0 | 41.3 | d | d | 0.0 | 3.3 | 3.5 | 0.0 | 28.4 |

d = Data withheld to avoid disclosing figures for individual companies.

1/ Crop year runs from October 1 to September 30. Annual totals reported on a calendar year basis beginning in 1991. 2/ Includes similar oils.

Source: Bureau of Census.

Table 22--Coconut oil consumption, with inedible by category, United States, 1985/86-92

| Year 1/ | Total consumption | Total edible | Total inedible | Soap | Paint or varnish | Feed | Resins and plastics | Lubricants 2/ | Fatty acids | Other products |
|--------------------|----------------------|-----------------|-------------------|-------|---------------------|------|------------------------|---------------|----------------|-------------------|
| --Million pounds-- | | | | | | | | | | |
| 1985/86 | 634.7 | 332.8 | 301.9 | 123.2 | d | 0.0 | d | d | 59.7 | d |
| 1986/87 | 858.2 | 319.4 | 538.8 | 216.1 | d | 0.0 | d | d | 95.7 | d |
| 1987/88 | 788.6 | 233.4 | 555.4 | 213.8 | d | 0.0 | 7.2 | d | 131.4 | d |
| 1988/89 | 688.8 | 211.2 | 477.6 | 130.6 | 1.4 | d | 14.6 | d | 121.9 | 206.6 |
| 1989/90 | 525.2 | 160.6 | 364.6 | 156.9 | 2.1 | 0.0 | 9.7 | 4.0 | 134.6 | 57.3 |
| 1991 | 815.6 | 153.0 | 662.6 | 158.0 | d | d | 2.4 | d | 426.7 | 72.8 |
| 1992 | 875.4 | 176.3 | 699.1 | 121.7 | d | 0.0 | 3.2 | d | d | d |

d = Data withheld to avoid disclosing figures for individual companies.

1/ Crop year runs from October 1 to September 30. Annual totals reported on a calendar year basis beginning in 1991. 2/ Includes similar oils.

Source: Bureau of Census.

Table 23--Edible tallow consumption, with inedible by category, United States, 1985/86-92

| Year 1/ | Total consumption | Total edible | Total inedible | Soap | Paint or varnish | Feed | Resins and plastics | Lubricants 2/ | Fatty acids | Other products |
|--------------------|----------------------|-----------------|-------------------|-------|---------------------|------|------------------------|---------------|----------------|-------------------|
| --Million pounds-- | | | | | | | | | | |
| 1985/86 | 1,080.2 | 1,020.9 | 59.2 | d | 0.0 | 0.0 | 0.0 | d | d | d |
| 1986/87 | 979.2 | 910.6 | 68.6 | d | 0.0 | 0.0 | d | d | d | d |
| 1987/88 | 954.3 | 863.6 | 90.5 | d | 0.0 | 0.0 | d | d | d | d |
| 1988/89 | 923.3 | 779.2 | 144.1 | d | 0.0 | d | d | d | d | d |
| 1989/90 | 846.4 | 706.3 | 140.1 | 113.9 | 0.0 | d | d | d | d | d |
| 1991 | 611.8 | 463.1 | 148.7 | d | 0.0 | d | d | d | d | d |
| 1992 | 595.0 | 429.3 | 165.7 | d | 0.0 | d | d | d | d | d |

d = Data withheld to avoid disclosing figures for individual companies.

1/ Crop year runs from October 1 to September 30. Annual totals reported on a calendar year basis beginning in 1991. 2/ Includes similar oils.

Source: Bureau of Census.

Table 24--Inedible tallow consumption, with inedible by category, United States, 1985/86-92

| Year 1/ | Total consumption | Total edible | Total inedible | Soap | Paint or varnish | Feed | Resins and plastics | Lubricants 2/ | Fatty acids | Other products |
|--------------------|-------------------|--------------|----------------|-------|------------------|---------|---------------------|---------------|-------------|----------------|
| --Million pounds-- | | | | | | | | | | |
| 1985/86 | 2,878.5 | 0.0 | 2,878.5 | 492.3 | 0.0 | 1,550.5 | 0.0 | 62.8 | 733.4 | 39.5 |
| 1986/87 | 3,040.9 | 0.0 | 3,040.9 | 543.6 | 0.0 | 1,698.9 | 0.0 | 70.3 | 693.6 | 35.1 |
| 1987/88 | 3,137.8 | 0.0 | 3,137.8 | 502.0 | 0.0 | 1,820.3 | 0.0 | 69.9 | 712.6 | 33.0 |
| 1988/89 | 3,086.7 | 0.0 | 3,086.7 | 374.9 | 0.0 | 1,925.4 | 0.0 | 70.3 | 680.0 | 36.1 |
| 1989/90 | 3,219.0 | 0.0 | 3,219.0 | 398.4 | 0.0 | 1,982.9 | 0.0 | 109.0 | 684.0 | 44.7 |
| 1991 | 2,949.3 | 0.0 | 2,949.3 | 391.5 | 0.0 | 1,748.4 | 0.0 | 59.6 | 700.9 | 48.9 |
| 1992 | 3,050.1 | 0.0 | 3,050.1 | 334.4 | 0.0 | 1,954.4 | 0.0 | 63.2 | 659.0 | 39.1 |

d = Data withheld to avoid disclosing figures for individual companies.

1/ Crop year runs from October 1 to September 30. Annual totals reported on a calendar year basis beginning in 1991. 2/ Includes similar oils.

Source: Bureau of Census.

Table 25--Lard consumption, with inedible by category, United States, 1985/86-92

| Year 1/ | Total consumption | Total edible | Total inedible | Soap | Paint or varnish | Feed | Resins and plastics | Lubricants 2/ | Fatty acids | Other products |
|--------------------|-------------------|--------------|----------------|------|------------------|------|---------------------|---------------|-------------|----------------|
| --Million pounds-- | | | | | | | | | | |
| 1985/86 | 405.8 | 355.0 | 50.8 | 0.0 | 0.0 | d | 0.0 | 7.2 | d | d |
| 1986/87 | 301.2 | 240.9 | 60.3 | d | 0.0 | d | 0.0 | 6.2 | d | d |
| 1987/88 | 347.5 | 280.3 | 66.9 | d | 0.0 | d | 0.0 | 8.4 | d | d |
| 1988/89 | 389.9 | 324.5 | 65.4 | 0.0 | 0.0 | d | 0.0 | d | d | d |
| 1989/90 | 369.3 | 303.8 | 65.5 | d | 0.0 | d | 0.0 | 9.1 | d | d |
| 1991 | 393.1 | 313.8 | 79.3 | 0.0 | 0.0 | d | 0.0 | 5.7 | d | 4.1 |
| 1992 | 479.7 | 345.0 | 134.6 | 0.0 | 0.0 | d | 0.0 | 10.9 | d | 13.5 |

d = Data withheld to avoid disclosing figures for individual companies.

1/ Crop year runs from October 1 to September 30. Annual totals reported on a calendar year basis beginning in 1991. 2/ Includes similar oils.

Source: Bureau of Census.

Table 26--Linseed oil consumption, with inedible by category, United States, 1985/86-92

| Year 1/ | Total consumption | Total edible | Total inedible | Soap | Paint or varnish | Feed | Resins and plastics | Lubricants 2/ | Fatty acids | Other products |
|--------------------|-------------------|--------------|----------------|------|------------------|------|---------------------|---------------|-------------|----------------|
| --Million pounds-- | | | | | | | | | | |
| 1985/86 | 176.9 | 0.0 | 176.9 | 0.0 | 131.0 | 0.0 | 29.7 | d | d | d |
| 1986/87 | 280.8 | 0.0 | 280.8 | 0.0 | 187.6 | 0.0 | d | d | d | d |
| 1987/88 | 159.3 | 0.0 | 159.3 | 0.0 | 85.5 | 0.0 | 31.0 | d | d | 40.5 |
| 1988/89 | 154.9 | 0.0 | 154.9 | 0.0 | 101.6 | 0.0 | 23.1 | d | d | 28.2 |
| 1989/90 | 110.5 | 0.0 | 110.5 | 0.0 | 30.3 | d | 52.5 | d | d | 23.8 |
| 1991 | 95.8 | 0.0 | 95.8 | 0.0 | 40.7 | 0.0 | 41.6 | d | d | 12.7 |
| 1992 | 154.4 | 0.0 | 154.4 | 0.0 | 69.0 | 0.0 | 31.3 | d | d | d |

d = Data withheld to avoid disclosing figures for individual companies.

1/ Crop year runs from October 1 to September 30. Annual totals reported on a calendar year basis beginning in 1991. 2/ Includes similar oils.

Source: Bureau of Census.

Table 27--Palm oil consumption, with inedible by category, United States, 1985/86-92

| Year 1/ | Total consumption | Total edible | Total inedible | Soap | Paint or varnish | Feed | Resins and plastics | Lubricants 2/ | Fatty acids | Other products |
|--------------------|-------------------|--------------|----------------|------|------------------|------|---------------------|---------------|-------------|----------------|
| --Million pounds-- | | | | | | | | | | |
| 1985/86 | 398.1 | 364.0 | 34.1 | d | 0.0 | d | 0.0 | d | d | d |
| 1986/87 | 317.9 | 278.7 | 39.2 | d | d | d | d | d | d | d |
| 1987/88 | 242.6 | 197.5 | 45.1 | d | d | d | d | d | d | d |
| 1988/89 | 247.0 | 203.8 | 43.2 | d | 0.0 | d | d | 0.0 | d | d |
| 1989/90 | 177.7 | 124.0 | 53.7 | d | 0.0 | d | 0.0 | d | d | d |
| 1991 | d | d | d | d | 0.0 | d | 0.0 | d | d | d |
| 1992 | 220.5 | 108.1 | 112.4 | d | 0.0 | d | 0.0 | d | 40.6 | 3.6 |

d = Data withheld to avoid disclosing figures for individual companies.

1/ Crop year runs from October 1 to September 30. Annual totals reported on a calendar year basis beginning in 1991. 2/ Includes similar oils.

Source: Bureau of Census.

Table 28--Rapeseed oil consumption, with inedible by category, United States, 1989/90-92 1/

| Year 2/ | Total consumption | Total edible | Total inedible | Soap | Paint or varnish | Feed | Resins and plastics | Lubricants 3/ | Fatty acids | Other products |
|--------------------|-------------------|--------------|----------------|------|------------------|------|---------------------|---------------|-------------|----------------|
| --Million pounds-- | | | | | | | | | | |
| 1989/90 | d | 265.0 | d | 0.0 | d | d | d | d | d | d |
| 1991 | d | 285.1 | d | 0.0 | 0.0 | d | 0.0 | d | d | d |
| 1992 | d | 360.5 | d | 0.0 | 0.0 | d | 0.0 | d | d | d |

d = Data withheld to avoid disclosing figures for individual companies.

1/ Includes both canola and industrial rapeseed. 2/ Crop year runs from October 1 to September 30. Annual totals reported on a calendar year basis beginning in 1991. 3/ Includes similar oils.

Source: Bureau of Census.

Table 29--Soybean oil consumption, with inedible by category, United States, 1985/86-92

| Year 1/ | Total consumption | Total edible | Total inedible | Soap | Paint or varnish | Feed | Resins and plastics | Lubricants 2/ | Fatty acids | Other products |
|--------------------|-------------------|--------------|----------------|------|------------------|------|---------------------|---------------|-------------|----------------|
| --Million pounds-- | | | | | | | | | | |
| 1985/86 | 10,283.3 | 10,003.7 | 279.5 | d | 59.5 | d | 98.7 | d | 31.5 | d |
| 1986/87 | 10,512.2 | 10,212.7 | 299.5 | d | 63.2 | d | 109.2 | d | d | 65.3 |
| 1987/88 | 10,714.5 | 10,429.1 | 285.3 | 2.7 | 54.1 | d | 106.1 | d | d | 72.3 |
| 1988/89 | 9,917.6 | 9,635.8 | 281.8 | 1.5 | 34.9 | d | 123.7 | d | d | 68.2 |
| 1989/90 | 10,808.3 | 10,536.7 | 271.6 | d | 38.2 | d | 112.4 | d | d | 52.4 |
| 1991 | 11,267.7 | 10,966.7 | 301.0 | d | 49.2 | d | 104.7 | d | d | 40.4 |
| 1992 | 11,471.6 | 11,168.7 | 302.8 | d | 43.5 | 22.3 | 94.0 | 5.9 | d | 69.8 |

d = Data withheld to avoid disclosing figures for individual companies.

1/ Crop year runs from October 1 to September 30. Annual totals reported on a calendar year basis beginning in 1991. 2/ Includes similar oils.

Source: Bureau of Census.

Table 30--Tall oil consumption, with inedible by category, United States, 1985/86-92

| Year 1/ | Total consumption | Total edible | Total inedible | Soap | Paint or varnish | Feed | Resins and plastics | Lubricants 2/ | Fatty acids | Other products |
|--------------------|-------------------|--------------|----------------|------|------------------|------|---------------------|---------------|-------------|----------------|
| --Million pounds-- | | | | | | | | | | |
| 1985/86 | 1,143.4 | 0.0 | 1,143.4 | 12.8 | 17.0 | 0.0 | 15.6 | 12.0 | 1,055.2 | 30.8 |
| 1986/87 | 1,227.0 | 0.0 | 1,227.0 | 12.2 | d | 0.0 | 15.7 | 12.9 | 1,152.6 | 19.2 |
| 1987/88 | 1,269.4 | 0.0 | 1,269.4 | 16.8 | 23.3 | 0.0 | 20.9 | 9.6 | 1,181.1 | 17.8 |
| 1988/89 | 1,234.3 | 0.0 | 1,234.3 | 8.3 | 31.8 | 0.0 | 18.0 | 8.1 | 1,157.3 | 10.8 |
| 1989/90 | 1,024.7 | 0.0 | 1,024.7 | 8.4 | 7.4 | 0.0 | 21.7 | 7.1 | 969.9 | 10.2 |
| 1991 | 940.0 | 0.0 | 940.0 | 3.5 | 5.4 | 0.0 | 11.6 | 4.0 | 906.5 | 9.0 |
| 1992 | 883.5 | 0.0 | 883.5 | d | d | 0.0 | 19.4 | 7.0 | 841.8 | 11.4 |

d = Data withheld to avoid disclosing figures for individual companies.

1/ Crop year runs from October 1 to September 30. Annual totals reported on a calendar year basis beginning in 1991. 2/ Includes similar oils.

Source: Bureau of Census.

Table 31--Vegetable oil foots consumption, with inedible by category, United States, 1985/86-92

| Year 1/ | Total consumption | Total edible | Total inedible | Soap | Paint or varnish | Feed | Resins and plastics | Lubricants 2/ | Fatty acids | Other products |
|--------------------|-------------------|--------------|----------------|------|------------------|-------|---------------------|---------------|-------------|----------------|
| --Million pounds-- | | | | | | | | | | |
| 1985/86 | 99.2 | 0.0 | 99.2 | d | d | d | d | d | d | d |
| 1986/87 | 94.9 | 0.0 | 94.9 | d | d | d | d | d | d | d |
| 1987/88 | 91.1 | 0.0 | 91.1 | d | d | 74.3 | d | d | d | d |
| 1988/89 | 87.5 | 0.0 | 87.5 | d | d | 72.7 | d | d | d | d |
| 1989/90 | 100.1 | 0.0 | 100.1 | d | d | 81.7 | d | d | d | d |
| 1991 | 148.8 | 0.0 | 148.8 | d | 0.0 | 131.4 | d | d | d | d |
| 1992 | 134.9 | 0.0 | 134.9 | d | 0.0 | 120.2 | 0.0 | d | d | d |

d = Data withheld to avoid disclosing figures for individual companies.

1/ Crop year runs from October 1 to September 30. Annual totals reported on a calendar year basis beginning in 1991. 2/ Includes similar oils.

Source: Bureau of Census.

Table 32--Canola oil prices, Midwest markets, 1989-93

| Year | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sep. | Oct. | Nov. | Dec. | Avg. |
|-----------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| --Cents/pound-- | | | | | | | | | | | | | |
| 1989 | 25.00 | 25.30 | 26.40 | 26.25 | 25.55 | 23.44 | 22.50 | 22.38 | 23.00 | 23.19 | 25.31 | 25.60 | 24.49 |
| 1990 | 26.69 | 27.50 | 28.94 | 29.25 | 31.15 | 27.19 | 25.31 | 26.90 | 18.38 | 24.38 | 24.63 | 23.13 | 26.12 |
| 1991 | 24.00 | 23.56 | 24.38 | 24.88 | 24.25 | 23.75 | 22.90 | 23.94 | 24.56 | 23.05 | 23.38 | 22.42 | 23.76 |
| 1992 | 22.25 | 21.75 | 21.75 | 20.75 | 22.00 | 22.31 | 20.94 | 20.69 | 22.90 | 22.19 | 24.38 | 23.08 | 22.08 |
| 1993 | 22.08 | | | | | | | | | | | | |

Source: Milling and Baking News.

Table 33--Castor oil prices, raw No. 1, tanks, Brazilian, 1989-93

| Year | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sep. | Oct. | Nov. | Dec. | Avg. |
|-----------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| --Cents/pound-- | | | | | | | | | | | | | |
| 1989 | 51.00 | 51.75 | 51.90 | 51.50 | 51.50 | 51.50 | 51.50 | 51.50 | 41.20 | 51.50 | 51.50 | 53.75 | 50.84 |
| 1990 | 54.50 | 53.50 | 52.60 | 52.00 | 51.20 | 51.00 | 51.00 | 51.00 | 45.00 | 42.40 | 39.63 | 39.63 | 48.62 |
| 1991 | 39.30 | 36.00 | 36.75 | 37.00 | 37.00 | 36.50 | 35.50 | 35.00 | 35.00 | 35.40 | 35.00 | 37.50 | 36.33 |
| 1992 | 37.50 | 37.50 | 37.50 | 36.00 | 34.50 | 34.50 | 34.50 | 34.50 | 34.00 | 34.00 | 34.00 | 34.00 | 35.21 |
| 1993 | 34.00 | 32.00 | 32.00 | 37.00 | | | | | | | | | |

Source: Chemical Marketing Reporter.

Table 34--Coconut oil prices, crude, tanks, f.o.b. New York, 1989-93

| Year | Jan. | Feb. | Mar. | Apr. | May | Jun. | Jul. | Aug. | Sep. | Oct. | Nov. | Dec. | Avg. |
|-----------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| --Cents/pound-- | | | | | | | | | | | | | |
| 1989 | 26.75 | 27.63 | 27.90 | 28.94 | 29.90 | 29.56 | 28.94 | 27.75 | 28.63 | 27.25 | 26.35 | 24.81 | 27.87 |
| 1990 | 24.31 | 23.69 | 22.10 | 21.63 | 21.30 | 20.31 | 19.16 | 18.58 | 18.26 | 18.18 | 20.45 | 20.13 | 20.67 |
| 1991 | 20.22 | 20.31 | 20.50 | 19.38 | 19.69 | 21.69 | 26.19 | 25.63 | 25.63 | 28.50 | 31.50 | 32.38 | 24.30 |
| 1992 | 39.33 | 36.00 | 34.57 | 34.75 | 33.56 | 32.13 | 29.63 | 27.31 | 27.88 | 26.94 | 27.00 | 25.50 | 31.22 |
| 1993 | 24.94 | 24.33 | 23.65 | 23.25 | 24.13 | | | | | | | | |

Source: Chemical Marketing Reporter.

Table 35--Edible tallow prices, Chicago, 1989-93

| Year | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sep. | Oct. | Nov. | Dec. | Avg. |
|-----------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| --Cents/pound-- | | | | | | | | | | | | | |
| 1989 | 16.50 | 16.07 | 16.25 | 15.75 | 16.19 | 16.00 | 15.73 | 15.33 | 16.50 | 16.18 | N.A. | N.A. | 13.37 |
| 1990 | 16.77 | 17.16 | 15.46 | 14.25 | 14.20 | 14.28 | 14.21 | 10.53 | 13.76 | 14.55 | 15.00 | 15.28 | 14.62 |
| 1991 | 15.88 | 14.28 | 14.43 | 14.80 | 13.02 | 13.25 | 13.70 | 14.61 | 14.37 | 14.60 | 14.09 | 14.00 | 14.25 |
| 1992 | 14.05 | 14.00 | 14.15 | 14.28 | 14.66 | 15.37 | 15.87 | 16.00 | 16.05 | 16.88 | 18.18 | 17.00 | 15.54 |
| 1993 | 16.08 | 15.39 | 16.07 | | | | | | | | | | |

N.A. = Not available.

Source: Grain and Feed Marketing News.

Table 36--Flaxseed, average price received by farmers, 1989-93

| Year | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sep. | Oct. | Nov. | Dec. | Avg. |
|--------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| --Dollars/bushel-- | | | | | | | | | | | | | |
| 1989 | 8.34 | 8.70 | 8.09 | 7.78 | 7.54 | 6.79 | 5.90 | 6.49 | 7.07 | 7.09 | 7.15 | 7.14 | 7.29 |
| 1990 | 7.24 | 7.69 | 8.03 | 8.60 | 8.23 | 8.31 | 7.56 | 5.86 | 5.36 | 5.15 | 5.16 | 5.15 | 5.53 |
| 1991 | 5.12 | 4.80 | 4.90 | 4.66 | 4.33 | 3.98 | 3.91 | 3.69 | 3.55 | 3.40 | 3.31 | 3.46 | 3.57 |
| 1992 | 3.39 | 3.43 | 3.52 | 3.53 | 3.61 | 3.67 | 3.70 | 3.71 | 4.12 | 4.09 | 4.10 | 4.21 | 3.94 |
| 1993 | 4.12 | 4.47 | 4.54 | 4.41 | 4.35 | | | | | | | | |

Source: National Agricultural Statistical Service, USDA.

Table 37--Industrial rapeseed oil prices, refined, tanks, New York, 1989-93

| Year | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sep. | Oct. | Nov. | Dec. | Avg. |
|-----------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| --Cents/pound-- | | | | | | | | | | | | | |
| 1989 | 70.00 | 70.00 | 80.25 | 80.25 | 80.25 | 80.25 | 80.25 | 80.25 | 80.25 | 64.20 | 80.25 | 80.25 | 77.20 |
| 1990 | 81.75 | 82.25 | 82.25 | 82.25 | 82.25 | 82.25 | 82.25 | 82.25 | 79.75 | 77.25 | 77.25 | 81.00 | 81.06 |
| 1991 | 82.25 | 82.25 | 82.25 | 82.25 | 82.25 | 82.25 | 82.25 | 82.25 | 82.25 | 82.25 | 82.25 | 82.25 | 82.25 |
| 1992 | 82.25 | 82.25 | 82.25 | 82.25 | 82.25 | 82.25 | 82.25 | 82.25 | 67.25 | 62.25 | 62.25 | 62.25 | 76.00 |
| 1993 | 62.25 | 62.25 | 62.25 | 62.25 | 55.88 | | | | | | | | |

Source: Chemical Marketing Reporter.

Table 38--Inedible tallow prices, Chicago, 1989-93

| Year | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sep. | Oct. | Nov. | Dec. | Avg. |
|-----------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| --Cents/pound-- | | | | | | | | | | | | | |
| 1989 | 14.90 | 16.00 | 14.86 | 14.60 | 14.70 | 15.10 | 14.48 | 13.52 | 14.13 | 10.94 | 14.75 | 14.25 | 14.35 |
| 1990 | 14.87 | 14.50 | 14.47 | 13.50 | 13.51 | 14.01 | 13.50 | 10.12 | 13.50 | 13.42 | 14.09 | 14.50 | 13.67 |
| 1991 | 14.53 | 12.91 | 13.63 | 13.57 | 12.25 | 12.36 | 12.96 | 14.00 | 13.50 | 13.68 | 13.08 | 12.50 | 13.25 |
| 1992 | N.A. | 12.63 | 12.68 | 13.25 | 13.75 | 13.98 | 14.75 | 15.42 | 15.25 | 15.73 | 16.75 | 13.52 | 14.34 |
| 1993 | 15.09 | 14.69 | 15.24 | 15.94 | 15.13 | | | | | | | | |

N.A. = Not available.

Source: Grain and Feed Marketing News.

Table 39--Linseed oil prices, tanks, Minneapolis, 1989-93

| Year | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sep. | Oct. | Nov. | Dec. | Avg. |
|-----------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| --Cents/pound-- | | | | | | | | | | | | | |
| 1989 | 41.00 | 41.00 | 41.40 | 42.00 | 42.00 | 39.75 | 39.00 | 39.00 | 39.50 | 40.00 | 40.00 | 39.50 | 40.35 |
| 1990 | 40.00 | 40.00 | 41.60 | 42.00 | 42.00 | 43.00 | 44.00 | 40.40 | 39.75 | 36.80 | 36.00 | 36.00 | 40.13 |
| 1991 | 36.00 | 36.00 | 36.00 | 36.00 | 36.50 | 36.00 | 36.00 | 36.00 | 36.00 | 30.00 | 30.00 | 30.00 | 34.54 |
| 1992 | 30.00 | 30.00 | 30.00 | 30.00 | 30.00 | 30.00 | 30.00 | 30.00 | 32.00 | 32.00 | 32.00 | 32.00 | 28.17 |
| 1993 | 32.00 | 32.00 | 32.00 | 32.00 | 32.00 | | | | | | | | |

Source: Grain and Feed Marketing News.

Table 40--Linseed meal prices, bulk, 34 percent protein, Minneapolis, 1989-93

| Year | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sep. | Oct. | Nov. | Dec. | Avg. |
|------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| --Dollars/tons-- | | | | | | | | | | | | | |
| 1989 | 164.00 | 151.25 | 150.00 | 155.00 | 156.00 | 162.50 | 158.75 | 161.00 | 145.00 | 129.00 | 126.25 | 128.75 | 148.96 |
| 1990 | 132.50 | 124.50 | 126.25 | 133.75 | 143.00 | 142.50 | 136.00 | 126.25 | 116.25 | 133.00 | 143.75 | 133.50 | 132.60 |
| 1991 | 131.00 | 131.25 | 120.00 | 121.00 | 126.25 | 134.25 | 133.00 | 131.25 | 116.25 | 128.00 | 113.75 | 127.80 | 126.15 |
| 1992 | 122.00 | 124.00 | 115.00 | 117.50 | 120.00 | 125.00 | 123.50 | 126.25 | 131.00 | 141.25 | 152.50 | 137.40 | 127.95 |
| 1993 | 136.70 | 142.50 | 135.40 | 125.50 | | | | | | | | | |

N.A. = Not available.

Source: Grain and Feed Marketing News.

Table 41--Soybean oil prices, crude, tanks, f.o.b. Decatur, 1989-93

| Year | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sep. | Oct. | Nov. | Dec. | Avg. |
|-----------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| --Cents/pound-- | | | | | | | | | | | | | |
| 1989 | 21.13 | 21.21 | 22.11 | 21.97 | 22.23 | 20.75 | 19.66 | 18.08 | 18.77 | 19.02 | 19.57 | 19.11 | 21.09 |
| 1990 | 19.28 | 20.27 | 22.80 | 23.35 | 24.72 | 25.03 | 24.69 | 25.05 | 24.45 | 22.59 | 21.05 | 21.55 | 22.28 |
| 1991 | 21.56 | 21.66 | 22.21 | 21.50 | 20.23 | 19.65 | 19.05 | 20.23 | 20.46 | 19.57 | 18.78 | 18.99 | 20.98 |
| 1992 | 18.77 | 18.88 | 19.74 | 19.00 | 20.15 | 20.71 | 18.82 | 17.87 | 18.28 | 18.36 | 20.10 | 20.52 | 19.13 |
| 1993 | 21.23 | 20.72 | 21.00 | 21.24 | 21.15 | | | | | | | | |

Source: The Wall Street Journal.

Table 42--World production of jojoba seed, 1992/93

| Country and source | Production Pounds |
|---------------------------------|----------------------|
| United States | |
| Native stands 1/ | 36,372 |
| Plantations | 4,110,503 |
| Total | 4,146,875 |
| Mexico | |
| Native stands 1/ | 79,809 |
| Plantations | 216,051 |
| Total | 295,860 |
| Israel | |
| Plantations | 320,000 |
| Argentina | |
| Plantations 2/ | 250,000 |
| Total estimated seed production | 5,012,735 |
| Total estimated oil production | 2,025,200 |

1/ Amount of processed seed. Unknown quantities of unprocessed seed may be held in inventory. 2/ Estimated.

Source: Jojoba Association.

Table 43--U.S. natural rubber latex imports, by country, 1989-92

| Country | 1989 | 1990 | 1991 | 1992 |
|-----------------|-------------|------------|------------|------------|
| --Metric tons-- | | | | |
| Malaysia | 47,281,074 | 30,647,643 | 40,000,125 | 45,279,103 |
| Singapore | 3,002,828 | 3,148,579 | 6,803,119 | 564,895 |
| Sri Lanka | 244,768 | 257,566 | 256,217 | 216,601 |
| Thailand | 7,507,633 | 3,418,870 | 4,120,504 | 4,129,368 |
| Other | 61,755,077 | 34,984,788 | 27,859,374 | 36,461,643 |
| Total | 119,791,380 | 72,457,446 | 79,039,339 | 86,651,610 |

Source: International Rubber Study Group.

Table 44--U.S. natural rubber latex exports, by country, 1989-92

| Country | 1989 | 1990 | 1991 | 1992 |
|-----------------|------------|-----------|-----------|-----------|
| --Metric tons-- | | | | |
| Canada | 12,185,785 | 3,227,593 | 3,027,736 | 1,820,378 |
| Italy | 1,134,076 | 908,833 | 908,833 | 1,075,446 |
| Venezuela | 741,103 | 1,115,554 | 324,467 | 120,071 |
| Mexico | 711,748 | 989,194 | 892,819 | 1,589,600 |
| Singapore | 502,050 | 31,939 | 31,939 | 38,518 |
| Chile | 276,223 | 188,569 | 278,567 | 132,340 |
| Japan | 262,814 | 629,970 | 714,781 | 720,519 |
| Sweden | 235,930 | 61,435 | 52,509 | 6,261 |
| United Kingdom | 207,673 | 227,511 | 287,345 | 66,154 |
| Germany | 133,937 | 262,349 | 403,486 | 151,613 |
| Other 1/ | 1,277,459 | 1,664,326 | 2,029,626 | 1,739,865 |
| Total | 17,668,798 | 9,307,273 | 8,952,108 | 7,460,765 |

1/ Includes 62 countries.

Source: International Rubber Study Group.

List Prices

The following are list prices from the Chemical Marketing Reporter for selected chemicals and related materials on a New York or other indicated basis. They do not represent bid, asked, or actual transaction prices. Variations from listed prices may occur for differences in quantity, quality, and location. Commodities whose list prices did not change more than once or twice since January 1989 are not included here.

Table 45--Denatured alcohol prices, ethyl (ethanol), SD2B, tanks delivered east, 1989-93 1/

| Year | Jan. | Feb. | Mar. | Apr. | May | Jun. | Jul. | Aug. | Sep. | Oct. | Nov. | Dec. | Avg. |
|---------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| --Dollars/gallons-- | | | | | | | | | | | | | |
| 1989 | 2.01 | 2.01 | 2.01 | 2.11 | 2.11 | 2.11 | 2.11 | 2.11 | 2.11 | 2.11 | 2.11 | 2.11 | 2.09 |
| 1990 | 2.11 | 2.11 | 2.11 | 2.11 | 2.11 | 2.11 | 2.11 | 2.11 | 2.11 | 2.11 | 2.11 | 2.11 | 2.11 |
| 1991 | 2.11 | 2.11 | 2.11 | 2.11 | 2.11 | 2.11 | 2.11 | 2.11 | 2.02 | 2.02 | 2.02 | 2.02 | 2.08 |
| 1992 | 2.02 | 2.02 | 2.02 | 2.02 | 2.02 | 2.02 | 2.02 | 2.02 | 2.02 | 2.02 | 2.02 | 2.02 | 2.02 |
| 1993 | 2.02 | 2.02 | 2.02 | 2.02 | 2.02 | | | | | | | | |

1/ Made by yeast fermentation of carbohydrates or by hydrolysis of ethylene for solvents, cosmetics, and oxygenated gasoline additive.

Source: Chemical Marketing Reporter.

Table 46--Dextrin prices, corn, canary dark, 100 lb. bags, carload, 1989-93 1/

| Year | Jan. | Feb. | Mar. | Apr. | May | Jun. | Jul. | Aug. | Sep. | Oct. | Nov. | Dec. | Avg. |
|-----------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| --Cents/pound-- | | | | | | | | | | | | | |
| 1989 | 28.04 | 28.04 | 28.04 | 32.00 | 32.00 | 32.00 | 32.00 | 32.00 | 32.00 | 32.00 | 32.00 | 32.00 | 31.01 |
| 1990 | 32.00 | 32.00 | 32.00 | 32.00 | 32.00 | 32.00 | 32.00 | 32.00 | 32.00 | 32.00 | 32.00 | 32.00 | 32.00 |
| 1991 | 32.00 | 32.00 | 32.00 | 32.00 | 32.00 | 32.00 | 32.00 | 32.00 | 32.00 | 32.00 | 32.00 | 32.00 | 32.00 |
| 1992 | 32.00 | 32.00 | 32.00 | 32.00 | 32.00 | 32.00 | 32.00 | 32.00 | 32.00 | 32.00 | 32.00 | 32.00 | 32.00 |
| 1993 | 32.00 | 32.00 | 32.00 | 32.00 | 32.00 | | | | | | | | |

1/ Obtained by heating acidified dry starch for adhesives and paper products.

Source: Chemical Marketing Reporter.

Table 47--Dextrose prices, hydrated, commercial, 100 lb. bags, carloads delivered, 1989-93 1/

| Year | Jan. | Feb. | Mar. | Apr. | May | Jun. | Jul. | Aug. | Sep. | Oct. | Nov. | Dec. | Avg. |
|-----------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| --Cents/pound-- | | | | | | | | | | | | | |
| 1989 | 24.25 | 24.25 | 25.50 | 25.50 | 25.50 | 25.50 | 25.50 | 25.50 | 25.50 | 25.50 | 25.50 | 25.50 | 25.29 |
| 1990 | 25.50 | 25.50 | 25.50 | 25.50 | 25.50 | 25.50 | 25.50 | 25.50 | 25.50 | 25.50 | 25.50 | 25.50 | 25.50 |
| 1991 | 25.50 | 25.50 | 25.50 | 25.50 | 25.50 | 25.50 | 25.50 | 25.50 | 25.50 | 25.50 | 25.50 | 25.50 | 25.50 |
| 1992 | 25.50 | 25.50 | 25.50 | 25.50 | 25.50 | 25.50 | 25.50 | 25.50 | 25.50 | 25.50 | 25.50 | 25.50 | 25.50 |
| 1993 | 25.50 | 25.50 | 25.50 | 25.50 | 25.50 | | | | | | | | |

1/ Obtained from corn starch hydrolysis for use in foods and as a fermentation substrate.

Source: Chemical Marketing Reporter.

Table 48--Furfural prices, tanks, f.o.b., 1989-93 1/

| Year | Jan. | Feb. | Mar. | Apr. | May | Jun. | Jul. | Aug. | Sep. | Oct. | Nov. | Dec. | Avg. |
|-----------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| --Cents/pound-- | | | | | | | | | | | | | |
| 1989 | 75.00 | 75.00 | 75.00 | 75.00 | 75.00 | 75.00 | 75.00 | 75.00 | 75.00 | 75.00 | 75.00 | 75.00 | 75.00 |
| 1990 | 75.00 | 75.00 | 75.00 | 75.00 | 75.00 | 79.00 | 79.00 | 79.00 | 79.00 | 79.00 | 79.00 | 79.00 | 77.33 |
| 1991 | 79.00 | 79.00 | 79.00 | 79.00 | 79.00 | 79.00 | 79.00 | 79.00 | 79.00 | 79.00 | 79.00 | 79.00 | 79.00 |
| 1992 | 79.00 | 79.00 | 79.00 | 79.00 | 79.00 | 79.00 | 79.00 | 79.00 | 79.00 | 79.00 | 79.00 | 79.00 | 79.00 |
| 1993 | 79.00 | 79.00 | 79.00 | 79.00 | 79.00 | | | | | | | | |

1/ Obtained by steam distillation of acidified plant materials for polymers and foundry binders.

Source: Chemical Marketing Reporter.

Table 49—Sorbitol prices, USP, regular, 70 percent aqueous, drums, carload, f.o.b., 1989-93 1/

| Year | Jan. | Feb. | Mar. | Apr. | May | Jun. | Jul. | Aug. | Sep. | Oct. | Nov. | Dec. | Avg. |
|-----------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| --Cents/pound-- | | | | | | | | | | | | | |
| 1989 | 38.00 | 38.00 | 39.00 | 39.00 | 39.00 | 39.00 | 40.50 | 40.50 | 40.50 | 40.50 | 40.50 | 40.50 | 39.58 |
| 1990 | 40.50 | 40.50 | 40.50 | 40.50 | 40.50 | 40.50 | 40.50 | 40.50 | 40.50 | 40.50 | 40.50 | 36.50 | 40.17 |
| 1991 | 36.50 | 33.00 | 33.00 | 33.00 | 33.00 | 33.00 | 33.00 | 33.00 | 33.00 | 33.00 | 33.00 | 33.00 | 33.29 |
| 1992 | 33.00 | 33.00 | 33.00 | 33.00 | 33.00 | 33.00 | 33.00 | 33.00 | 33.00 | 33.00 | 33.00 | 33.00 | 33.00 |
| 1993 | 33.00 | 33.00 | 33.00 | 33.00 | 33.00 | | | | | | | | |

1/ Hydrogenation of glucose for foods, cosmetics, and polyester polymers. Prices quoted are low end of a range.

Source: Chemical Marketing Reporter.

Table 50—Beeswax prices, refined, bleached white bricks, 100 lb. cartons, 1989-93 1/

| Year | Jan. | Feb. | Mar. | Apr. | May | Jun. | Jul. | Aug. | Sep. | Oct. | Nov. | Dec. | Avg. |
|-----------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| --Dollars per pound-- | | | | | | | | | | | | | |
| 1989 | 3.10 | 3.10 | 3.10 | 3.10 | 3.10 | 3.10 | 3.10 | 3.10 | 3.10 | 3.10 | 3.10 | 3.10 | 3.10 |
| 1990 | 3.10 | 3.10 | 3.10 | 3.10 | 3.10 | 3.10 | 3.10 | 3.10 | 3.10 | 3.10 | 3.10 | 3.10 | 3.10 |
| 1991 | 3.10 | 3.10 | 3.10 | 3.10 | 3.10 | 3.10 | 3.10 | 3.10 | 3.10 | 3.10 | 3.10 | 3.10 | 3.10 |
| 1992 | 3.10 | 3.10 | 3.10 | 3.10 | 3.10 | 3.10 | 3.10 | 3.10 | 3.10 | 3.10 | 3.10 | 3.10 | 3.12 |
| 1993 | 3.35 | 3.35 | 3.35 | 3.35 | 3.35 | | | | | | | | |

1/ A byproduct of honey production used for cosmetics and candles. Price quotes are low end of a range.

Source: Chemical Marketing Reporter.

Table 51—Capric acid prices, commercial, pure, tanks, 1989-93 1/

| Year | Jan. | Feb. | Mar. | Apr. | May | Jun. | Jul. | Aug. | Sep. | Oct. | Nov. | Dec. | Avg. |
|----------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| --Cents per gallon-- | | | | | | | | | | | | | |
| 1989 | 66.00 | 66.00 | 66.00 | 66.00 | 66.00 | 66.00 | 66.00 | 66.00 | 73.00 | 73.00 | 73.00 | 73.00 | 68.33 |
| 1990 | 73.00 | 73.00 | 73.00 | 73.00 | 73.00 | 73.00 | 73.00 | 73.00 | 83.00 | 83.00 | 83.00 | 83.00 | 76.33 |
| 1991 | 83.00 | 83.00 | 83.00 | 83.00 | 83.00 | 83.00 | 83.00 | 83.00 | 83.00 | 83.00 | 83.00 | 83.00 | 83.00 |
| 1992 | 83.00 | 83.00 | 83.00 | 83.00 | 83.00 | 83.00 | 83.00 | 92.00 | 92.00 | 92.00 | 92.00 | 92.00 | 86.75 |
| 1993 | 92.00 | 92.00 | 92.00 | 92.00 | 92.00 | | | | | | | | |

1/ Fatty acid obtained from coconut oil.

Source: Chemical Marketing Reporter.

Table 52—Caprylic acid prices, commercial, pure, tanks, 1989-93 1/

| Year | Jan. | Feb. | Mar. | Apr. | May | Jun. | Jul. | Aug. | Sep. | Oct. | Nov. | Dec. | Avg. |
|---------------------|--------|--------|--------|--------|--------|-------|-------|--------|--------|--------|--------|--------|-------|
| --Cents per pound-- | | | | | | | | | | | | | |
| 1989 | 64.00 | 64.00 | 74.00 | 74.00 | 74.00 | 74.00 | 74.00 | 74.00 | 74.00 | 76.00 | 76.00 | 76.00 | 72.83 |
| 1990 | 76.00 | 76.00 | 76.00 | 76.00 | 76.00 | 76.00 | 76.00 | 76.00 | 83.00 | 83.00 | 83.00 | 83.00 | 78.33 |
| 1991 | 83.00 | 83.00 | 83.00 | 83.00 | 83.00 | 83.00 | 83.00 | 83.00 | 83.00 | 83.00 | 83.00 | 83.00 | 83.00 |
| 1992 | 83.00 | 83.00 | 83.00 | 83.00 | 83.00 | 83.00 | 83.00 | 102.00 | 102.00 | 102.00 | 102.00 | 102.00 | 90.92 |
| 1993 | 102.00 | 102.00 | 102.00 | 102.00 | 102.00 | | | | | | | | |

1/ Fatty acid obtained from coconut oil.

Source: Chemical Marketing Reporter.

Table 53—Glycerine prices, natural, refined, USP, 99.7 percent, tanks, delivered, 1989-93 1/

| Year | Jan. | Feb. | Mar. | Apr. | May | Jun. | Jul. | Aug. | Sep. | Oct. | Nov. | Dec. | Avg. |
|---------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| --Cents per pound-- | | | | | | | | | | | | | |
| 1989 | 76.00 | 76.00 | 76.00 | 76.00 | 76.00 | 76.00 | 82.00 | 82.00 | 82.00 | 82.00 | 82.00 | 82.00 | 79.00 |
| 1990 | 82.00 | 82.00 | 82.00 | 77.00 | 73.00 | 73.00 | 73.00 | 73.00 | 73.00 | 73.00 | 75.00 | 75.00 | 75.92 |
| 1991 | 75.00 | 75.00 | 75.00 | 63.00 | 63.00 | 63.00 | 63.00 | 63.00 | 63.00 | 63.00 | 51.00 | 51.00 | 64.00 |
| 1992 | 51.00 | 51.00 | 51.00 | 58.50 | 58.50 | 58.50 | 58.50 | 58.50 | 58.50 | 58.50 | 58.50 | 58.50 | 56.63 |
| 1993 | 58.50 | 58.50 | 58.50 | 58.50 | 58.50 | | | | | | | | |

1/ Byproduct of splitting or saponification of fats and oils or made by petrochemical synthesis for cosmetics, food, drugs, and polyurethane polymers.

Source: Chemical Marketing Reporter.

Table 54—Jojoba oil prices, 2,200 lbs. or more, f.o.b. Arizona, 1989-93 1/

| Year | Jan. | Feb. | Mar. | Apr. | May | Jun. | Jul. | Aug. | Sep. | Oct. | Nov. | Dec. | Avg. |
|--------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| --Dollars per kilogram-- | | | | | | | | | | | | | |
| 1989 | 14.18 | 14.18 | 14.18 | 14.18 | 14.18 | 14.18 | 15.25 | 15.25 | 15.25 | 15.25 | 15.25 | 15.25 | 14.72 |
| 1990 | 15.25 | 20.02 | 20.02 | 20.02 | 20.02 | 20.02 | 26.00 | 26.00 | 25.00 | 25.00 | 24.00 | 24.00 | 22.11 |
| 1991 | 24.00 | 24.00 | 24.00 | 24.00 | 24.00 | 24.00 | 24.00 | 24.00 | 21.00 | 15.50 | 15.50 | 15.50 | 21.63 |
| 1992 | 15.50 | 15.50 | 15.50 | 15.50 | 15.50 | 15.50 | 15.50 | 13.50 | 13.50 | 11.99 | 11.99 | 11.99 | 14.29 |
| 1993 | 11.99 | 11.99 | 11.99 | 11.99 | 11.99 | | | | | | | | |

1/ Price quotes are the low end of a range.

Source: Chemical Marketing Reporter.

Table 55—Lard oil prices, tanks, f.o.b., 1989-93 1/

| Year | Jan. | Feb. | Mar. | Apr. | May | Jun. | Jul. | Aug. | Sep. | Oct. | Nov. | Dec. | Avg. |
|---------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| --Cents per pound-- | | | | | | | | | | | | | |
| 1989 | 30.00 | 30.00 | 30.00 | 30.00 | 30.00 | 30.00 | 30.00 | 30.00 | 30.00 | 30.00 | 30.00 | 30.00 | 30.00 |
| 1990 | 30.00 | 30.00 | 30.00 | 30.00 | 30.00 | 30.00 | 47.00 | 47.00 | 47.00 | 47.00 | 47.00 | 47.00 | 37.08 |
| 1991 | 47.00 | 47.00 | 47.00 | 47.00 | 47.00 | 47.00 | 47.00 | 47.00 | 47.00 | 47.00 | 47.00 | 47.00 | 47.00 |
| 1992 | 47.00 | 47.00 | 47.00 | 47.00 | 47.00 | 47.00 | 47.00 | 47.00 | 47.00 | 47.00 | 47.00 | 47.00 | 47.00 |
| 1993 | 47.00 | 35.00 | 35.00 | 35.00 | 35.00 | | | | | | | | |

1/ Rendered from pork fat for cutting oils and leather processing.

Source: Chemical Marketing Reporter.

Table 56—Lauric acid prices, commercial, pure bags, truckload, 1989-93 1/

| Year | Jan. | Feb. | Mar. | Apr. | May | Jun. | Jul. | Aug. | Sep. | Oct. | Nov. | Dec. | Avg. |
|---------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| --Cents per pound-- | | | | | | | | | | | | | |
| 1989 | 56.00 | 56.00 | 56.00 | 56.00 | 56.00 | 56.00 | 56.00 | 56.00 | 61.00 | 61.00 | 61.00 | 61.00 | 57.67 |
| 1990 | 61.00 | 61.00 | 61.00 | 61.00 | 61.00 | 61.00 | 61.00 | 61.00 | 65.50 | 65.50 | 65.50 | 65.50 | 62.50 |
| 1991 | 65.50 | 65.50 | 65.50 | 54.50 | 54.50 | 54.50 | 54.50 | 54.50 | 54.50 | 54.50 | 54.50 | 54.50 | 57.25 |
| 1992 | 54.50 | 54.50 | 54.50 | 65.00 | 65.00 | 65.00 | 65.00 | 65.00 | 65.00 | 65.00 | 65.00 | 65.00 | 62.38 |
| 1993 | 65.00 | 65.00 | 65.00 | 65.00 | 65.00 | | | | | | | | |

1/ The major fatty acid (45 to 50 percent) in coconut oil. Price quotes are the low end of a range.

Source: Chemical Marketing Reporter.

Table 57—Lecithin prices, unbleached, bulk, 1989-93 1/

| Year | Jan. | Feb. | Mar. | Apr. | May | Jun. | Jul. | Aug. | Sep. | Oct. | Nov. | Dec. | Avg. |
|---------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| --Cents per pound-- | | | | | | | | | | | | | |
| 1989 | 37.00 | 37.00 | 37.00 | 37.00 | 37.00 | 37.00 | 37.00 | 37.00 | 37.00 | 37.00 | 37.00 | 37.00 | 37.00 |
| 1990 | 38.00 | 38.00 | 38.00 | 38.00 | 38.00 | 38.00 | 38.00 | 32.00 | 32.00 | 32.00 | 29.00 | 29.00 | 35.00 |
| 1991 | 29.00 | 29.00 | 29.00 | 29.00 | 29.00 | 29.00 | 29.00 | 29.00 | 29.00 | 29.00 | 29.00 | 29.00 | 29.00 |
| 1992 | 29.00 | 29.00 | 29.00 | 29.00 | 29.00 | 29.00 | 29.00 | 29.00 | 26.00 | 26.00 | 26.00 | 26.00 | 28.00 |
| 1993 | 26.00 | 26.00 | 26.00 | 26.00 | 26.00 | | | | | | | | |

1/ Byproduct of soy oil extraction used as an emulsifying agent and antioxidant in foods.

Source: Chemical Marketing Reporter.

Table 58—Neatsfoot oil prices, 20 deg. F. drums, truckload, f.o.b., 1989-93 1/

| Year | Jan. | Feb. | Mar. | Apr. | May | Jun. | Jul. | Aug. | Sep. | Oct. | Nov. | Dec. | Avg. |
|---------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| --Cents per pound-- | | | | | | | | | | | | | |
| 1989 | 54.00 | 54.00 | 54.00 | 54.00 | 54.00 | 54.00 | 54.00 | 54.00 | 54.00 | 54.00 | 54.00 | 54.00 | 54.00 |
| 1990 | 54.00 | 54.00 | 54.00 | 54.00 | 54.00 | 54.00 | 70.00 | 70.00 | 70.00 | 70.00 | 70.00 | 70.00 | 62.00 |
| 1991 | 70.00 | 70.00 | 70.00 | 70.00 | 70.00 | 70.00 | 70.00 | 70.00 | 70.00 | 70.00 | 70.00 | 70.00 | 70.00 |
| 1992 | 70.00 | 70.00 | 70.00 | 70.00 | 70.00 | 70.00 | 70.00 | 70.00 | 72.50 | 72.50 | 72.50 | 72.50 | 70.83 |
| 1993 | 72.50 | 65.00 | 65.00 | 65.00 | 65.00 | | | | | | | | |

1/ Extract from feet/hoofs of slaughtered animals for specialty leather dressings.

Source: Chemical Marketing Reporter.

Table 59—Oleic acid prices, double distilled (white), tanks, 1989-93 1/

| Year | Jan. | Feb. | Mar. | Apr. | May | Jun. | Jul. | Aug. | Sep. | Oct. | Nov. | Dec. | Avg. |
|---------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| --Cents per pound-- | | | | | | | | | | | | | |
| 1989 | 54.00 | 54.00 | 54.00 | 54.00 | 54.00 | 54.00 | 54.00 | 54.00 | 54.00 | 54.00 | 54.00 | 54.00 | 54.00 |
| 1990 | 54.00 | 54.00 | 54.00 | 54.00 | 54.00 | 54.00 | 54.00 | 54.00 | 54.00 | 54.00 | 54.00 | 54.00 | 54.00 |
| 1991 | 54.00 | 54.00 | 54.00 | 54.00 | 54.00 | 54.00 | 54.00 | 54.00 | 54.00 | 54.00 | 54.00 | 54.00 | 54.00 |
| 1992 | 54.00 | 54.00 | 54.00 | 54.00 | 54.00 | 54.00 | 54.00 | 54.00 | 54.00 | 54.00 | 54.00 | 54.00 | 54.00 |
| 1993 | 54.00 | 61.00 | 61.00 | 61.00 | 61.00 | | | | | | | | |

1/ Obtained by fractional crystallization from mixed fatty acids for candles, soaps, and synthesis of other surfactants.

Source: Chemical Marketing Reporter.

Table 60--Palm kernel oil prices, bulk, c.i.f. U.S. ports, 1989-93 1/

| Year | Jan. | Feb. | Mar. | Apr. | May | Jun. | Jul. | Aug. | Sep. | Oct. | Nov. | Dec. | Avg. |
|---------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| --Cents per pound-- | | | | | | | | | | | | | |
| 1989 | 25.00 | 25.00 | 23.00 | 23.00 | 24.00 | 24.00 | 24.00 | 24.00 | 24.00 | 24.00 | 24.00 | 24.00 | 24.00 |
| 1990 | 21.00 | 21.00 | 21.00 | 21.00 | 21.00 | 21.00 | 21.00 | 21.00 | 21.00 | 21.00 | 21.00 | 21.00 | 21.00 |
| 1991 | 17.00 | 17.00 | 17.00 | 17.00 | 17.00 | 17.00 | 17.00 | 17.00 | 17.00 | 17.00 | 17.00 | 17.00 | 17.00 |
| 1992 | 17.00 | 17.00 | 17.00 | 17.00 | 17.00 | 17.00 | 17.00 | 17.00 | 17.00 | 17.00 | 17.00 | 17.00 | 17.00 |
| 1993 | 23.00 | 23.00 | 23.00 | 23.00 | 23.00 | | | | | | | | |

1/ Extracted from the seed kernels of palm trees for food products and soap.

Source: Chemical Marketing Reporter.

Table 61--Sebacic acid prices, CP bags, carload, 1989-93 1/

| Year | Jan. | Feb. | Mar. | Apr. | May | Jun. | Jul. | Aug. | Sep. | Oct. | Nov. | Dec. | Avg. |
|-----------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| --Dollars per pound-- | | | | | | | | | | | | | |
| 1989 | 1.95 | 1.95 | 1.95 | 1.95 | 1.95 | 1.95 | 1.95 | 1.95 | 1.95 | 2.05 | 2.05 | 2.05 | 1.97 |
| 1990 | 2.05 | 2.05 | 2.05 | 2.05 | 2.05 | 2.05 | 2.05 | 2.05 | 2.05 | 2.05 | 2.05 | 2.05 | 2.05 |
| 1991 | 2.05 | 2.05 | 2.05 | 2.05 | 2.05 | 2.05 | 2.05 | 2.05 | 2.05 | 2.05 | 2.05 | 2.05 | 2.05 |
| 1992 | 2.05 | 2.05 | 2.05 | 2.05 | 2.05 | 2.05 | 2.05 | 2.05 | 2.05 | 2.05 | 2.05 | 2.05 | 2.05 |
| 1993 | 2.05 | 2.05 | 2.05 | 2.05 | 2.05 | | | | | | | | |

1/ Made by high temperature cleavage of castor oil for use as an intermediate chemical in the manufacture of polymers and plasticizers.

Source: Chemical Marketing Reporter.

Table 62--Stearic acid prices, single pressed, bulk, 1989-93 1/

| Year | Jan. | Feb. | Mar. | Apr. | May | Jun. | Jul. | Aug. | Sep. | Oct. | Nov. | Dec. | Avg. |
|---------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| --Cents per pound-- | | | | | | | | | | | | | |
| 1989 | 37.00 | 37.00 | 37.00 | 37.00 | 37.00 | 37.00 | 37.00 | 37.00 | 37.00 | 37.00 | 37.00 | 37.00 | 37.00 |
| 1990 | 37.00 | 37.00 | 37.00 | 37.00 | 37.00 | 37.00 | 41.00 | 41.00 | 41.00 | 41.00 | 36.00 | 36.00 | 38.17 |
| 1991 | 36.00 | 36.00 | 36.00 | 36.00 | 36.00 | 36.00 | 36.00 | 36.00 | 36.00 | 36.00 | 36.00 | 36.00 | 36.00 |
| 1992 | 36.00 | 36.00 | 36.00 | 36.00 | 36.00 | 36.00 | 36.00 | 36.00 | 39.00 | 39.00 | 39.00 | 44.00 | 37.42 |
| 1993 | 44.00 | 44.00 | 44.00 | 44.00 | 44.00 | | | | | | | | |

1/ Obtained by hydrogenation of oils and fats for lubricating greases, soaps, and lubricants.

Source: Chemical Marketing Reporter.

Table 63--Tallow fatty acids prices, tanks, delivered, 1989-93 1/

| Year | Jan. | Feb. | Mar. | Apr. | May | Jun. | Jul. | Aug. | Sep. | Oct. | Nov. | Dec. | Avg. |
|---------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| --Cents per pound-- | | | | | | | | | | | | | |
| 1989 | 29.00 | 29.00 | 29.00 | 29.00 | 29.00 | 29.00 | 29.00 | 29.00 | 29.00 | 29.00 | 29.00 | 29.00 | 29.00 |
| 1990 | 29.00 | 29.00 | 29.00 | 29.00 | 29.00 | 29.00 | 29.00 | 29.00 | 29.00 | 29.00 | 29.00 | 29.00 | 29.00 |
| 1991 | 29.00 | 29.00 | 29.00 | 23.50 | 23.50 | 23.50 | 23.50 | 23.50 | 23.50 | 23.50 | 23.50 | 23.50 | 24.88 |
| 1992 | 23.50 | 23.50 | 23.50 | 23.50 | 23.50 | 23.50 | 23.50 | 23.50 | 23.50 | 23.50 | 23.50 | 23.50 | 23.50 |
| 1993 | 23.50 | 23.50 | 23.50 | 23.50 | 23.50 | | | | | | | | |

1/ Made from splitting tallow for direct use as lubricants or in greases and for separation into pure fatty acids. Prices quoted are the low end of a range.

Source: Chemical Marketing Reporter.

